

Sequence Listing Project.ST25  
SEQUENCE LISTING

<110> Centro de Ingenieria Genetica y Biotecnologia

<120> ARTIFICIAL PROMOTOR FOR THE EXPRESSION OF DNA SEQUENCES IN PLANT CELLS

<130> 976-26 PCT/US

<140> 10/539,476

<141> 2005-05-20

<150> PCT/CU2003/00018

<151> 2003-12-19

<150> CU 2002/0337

<151> 2002-12-27

<160> 34

<170> PatentIn version 3.3

<210> 1

<211> 86

<212> DNA

<213> artificial sequence

<220>

<223> synthetic construct

<400> 1

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<220>

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<400> 2

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acaaagatca taactagt 198

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<211> 231

<212> DNA

<213> artificial sequence

<220>

<223> synthetic construct

<400> 3

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# Sequence Listing Project.ST25

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cgtcaggatt agatgtgctt gatctttctt tcttcttttt gtgggtagaa ttggaatccc 180
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<220>
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<220>
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<400> 6
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# Sequence Listing Project.ST25

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# Sequence Listing Project.ST25

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<220>  
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<220>

## Sequence Listing Project.ST25

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attc	184

&lt;210&gt; 11

&lt;211&gt; 94

&lt;212&gt; DNA

&lt;213&gt; artificial sequence

&lt;220&gt;

&lt;223&gt; synthetic construct

&lt;400&gt; 11

aagcttgata tccatagcaa gcccagccca acccaaccca acccaaccca ccccagtgca	60
gccaaactggc aaatagtctc cacaccccgg cact	94

&lt;210&gt; 12

&lt;211&gt; 1087

&lt;212&gt; DNA

&lt;213&gt; artificial sequence

&lt;220&gt;

&lt;223&gt; synthetic construct

&lt;400&gt; 12

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# Sequence Listing Project.ST25

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<220>  
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<220>  
 <223> synthetic construct

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# Sequence Listing Project.ST25

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# Sequence Listing Project.ST25

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 <211> 27  
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<220>  
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<400> 17  
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27

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## Sequence Listing Project.ST25

**<220>**

<223> synthetic construct

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# Sequence Listing Project.ST25

<210> 21  
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 <212> DNA  
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 agttgccttt ccttttgtac tgtgttttaa cactacaagc catatattgt ctgtacgtgc 180  
 aacaaactat atcaccatgt atcccaagat gcttttttaa ttc 223

<210> 22  
 <211> 1032  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> synthetic construct

<400> 22  
 ctcgagatac atattaagag tatggacaga cttttcttta acaaactcca tttgtattac 60  
 tccaaaagca ccagaagttt gtcattggctg agtcatgaaa tgtatagttc aatcttgcaa 120  
 agttgccttt ccttttgtac tgtgttttaa cactacaagc catatattgt ctgtacgtgc 180  
 aacaaactat atcaccatgt atcccaagat gcttttttaa ttctatatat aggaagttca 240  
 tttcatttgg agccccccaa ccctaccacc accaccacca ccacctctc cttcacacaa 300  
 cacacacaca acagatctcc cccatcctcc ctcccgtcgc gccgcgcaac acctggtaag 360  
 atggctgtgc gtcagatat atatagtgat atgcactaca aagatcataa ctagaccgcc 420  
 gcctcccccc cccccctct ctaccttctc tctttctttc tccgtttttt ttttccgtct 480  
 cgtctcgatc tttggccttg gtagtttggg ggcgagaggc ggcttcgtcg cccagatcgg 540  
 tgcgcgtttt tttatttgga ggggcgggat ctgcgcgctg ggtctcggcg tgcggccgga 600  
 ttctcgcggg gaatggggct ctcggatgtg gatctgatcc gccgttggtg ggggagatat 660  
 ggggcgttta aaatttcgcc atgctaaaca agatcaggaa gaggggaaaa gggcactatg 720  
 gtttaatttt tatatatattc tgctgctgct cgtcaggatt agatgtgctt gatctttctt 780  
 tcttcttttt gtgggtagaa tttgaatccc tcagcattgt tcatcggtag tttttctttt 840  
 gtcgatgctc accctgttgt ttggtgtttt tatactagtg gctatcctga cacggtctct 900  
 ttgtcaaata tctctgtgtg cagggtataac tgcaggaaac aaattgaaca tcattctatc 960  
 aatacaacac aaacacaaca caactcaatc atttatttga caacacaact aaacaaccat 1020  
 ggtctagagc tc 1032

# Sequence Listing Project.ST25

<210> 23  
 <211> 10  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> synthetic construct

<400> 23  
 ccttttaggtt 10

<210> 24  
 <211> 11  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> synthetic construct

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> N is any nucleotide, A, T, C, G

<400> 24  
 ggttcgantc c 11

<210> 25  
 <211> 194  
 <212> DNA  
 <213> rice

<400> 25  
 accaccacca ccaccaccac ctctctcccc ctcgctgccg gacgacgagc tcctcccccc 60  
 tccccctccg ccgccgccgg taaccacccc gcgtccctct cctctttctt tctccgtttt 120  
 ttttttccgt ctcgtctcga tctttggcct tggtagtttg ggggagagag gcggcttcgt 180  
 cgcccagatc ggtg 194

<210> 26  
 <211> 194  
 <212> DNA  
 <213> maize

<400> 26  
 ttccccaacc tcgtgttggt cggagcgcac acacacacaa ccagatctcc cccaaatcca 60  
 cccgtcggca cctccgcttc aaggtacgcc gctcgtcctc ccccccccc cctctctacc 120  
 ttctctagat cggcgttccg gtccatgggt agggcccggg agttctactt ctgttcatgt 180  
 ttgtgttaga tccg 194

<210> 27  
 <211> 194  
 <212> DNA  
 <213> maize

# Sequence Listing Project.ST25

<400> 27  
aaacctctcc tccctcctcc attggactgc ttgctccctg ttgaccattg gggatatgctt 60  
gctctcctgt tcatctccgt gctaaacctc tgcctctctg gtgggttttt gctgggattt 120  
tgagctaata tgctggccgc ggtagaaaag accgtgtccc ctgatgagct caagcgctcg 180  
ccttagccgc gtcc 194

<210> 28  
<211> 97  
<212> DNA  
<213> artificial sequence

<220>  
<223> synthetic construct

<400> 28  
ggaaacaaat tgaacatcat tctatcaata caacacaaac acaacacaaac tcaatcattt 60  
atttgacaac acaactaaac aacctgggtc tagagct 97

<210> 29  
<211> 97  
<212> DNA  
<213> artificial sequence

<220>  
<223> synthetic construct

<400> 29  
ctagaccatg gttgttttagt tgtgttgtca aataaatgat tgagtttgtgt tgtgtttgtg 60  
ttgtattgat agaattgatgt tcaatttggt tcctgca 97

<210> 30  
<211> 693  
<212> DNA  
<213> artificial sequence

<220>  
<223> synthetic construct

<400> 30  
accaccacca ccaccaccac ctctccttc acacaacaca cacacaacag atctcccca 60  
tcctccctcc cgctcgccg cgcaacacct ggtaagatgg ctgtgcgctc agatatatat 120  
agtgatatgc actacaaaga tcataactag accgccgcct ccccccccc ccctctctac 180  
cttctctctt tctttctccg tttttttttt ccgtctcgtc tcgatctttg gccttggtag 240  
tttggggggc agaggcggtc tcgtcgccca gatcgggtgc cgttttttta tttggagggg 300  
cgggatctcg cggctgggtc tcggcgtgc gccggattct cgcggggaat ggggctctcg 360  
gatgtggatc tgatccgccg ttgttggggg agatatgggg cgtttaaaat ttcgccatgc 420  
taaacaagat caggaagagg ggaaaagggc actatggttt aatttttata tatttctgct 480

# Sequence Listing Project.ST25

gctgctcgtc aggattagat gtgcttgatc tttctttctt ctttttgtgg gtagaatttg	540
aatccctcag cattgttcat cggtagtttt tcttttgtcg atgctcaccc tgttgtttgg	600
tgtttttata ctagtggtta tcctgacacg gtctctttgt caaatatctc tgtgtgcagg	660
tataactgca ggaaacaaca acaataacca tgg	693

<210> 31  
 <211> 810  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> synthetic construct

<400> 31	
ctatatatag gaagttcatt tcatttggag ccccccaacc ctaccaccac caccaccacc	60
acctcctcct tcacacaaca cacacacaac agatctcccc catcctccct cccgtcgcgc	120
cgcgcaacac ctggtaagat ggctgtgcgc tcagatatat atagtgatat gcactacaaa	180
gatcataact agaccgccgc ctcccccccc cccctctctt accttctctc tttctttctc	240
cgtttttttt ttccgtctcg tctcgatctt tggccttggg agtttggggg cgagaggcgg	300
cttcgtcgcc cagatcggtg cgcgtttttt tatttggagg ggcgggatct cgcggctggg	360
tctcggcgtg cggccggatt ctgcgggga atggggctct cggatgtgga tctgatccgc	420
cgttgttggg ggagatatgg ggcgttttaa atttcgccat gctaaacaag atcaggaaga	480
ggggaaaagg gcactatggt ttaattttta tatatttctg ctgctgctcg tcaggattag	540
atgtgcttga tctttctttc ttctttttgt gggtagaatt tgaatccctc agcattgttc	600
atcggtagtt tttcttttgt cgatgctcac cctgttgttt ggtgttttta tactagtggc	660
tatcctgaca cggctctttt gtcaaatac tctgtgtgca ggtataactg caggaaacaa	720
attgaacatc attctatcaa tacaacacaa acacaacaca actcaatcat ttatttgaca	780
acacaactaa acaaccatgg tctagagctc	810

<210> 32  
 <211> 1078  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> synthetic construct

<400> 32	
atccatagca agcccagccc aacccaaccc aacccaaccc accccagtgc agccaactgg	60
caaatagtct ccacaccccc gcactatcac cgtgagttgt ccgcaccacc gcacgtctcg	120
cagccaaaaa aaaaaaaga aagaaaaaaa agaaaaagaa aaaacagcag gtgggtccgg	180
gtcgtggggg ccggaaaagc gaggaggatc gcgagcagcg acgaggccgg ccctccctcc	240

# Sequence Listing Project.ST25

gcttccaaag aaacgcccc catcaattct atatatagga agttcatttc atttggagcc	300
ccccaaccct accaccacca ccaccaccac ctctctcttc acacaacaca cacacaacag	360
atctcccca tcttccctcc cgtcgcgccg cgcaacacct ggtaagatgg ctgtgcgctc	420
agatatatat agtgatatgc actacaaaga tcataactag accgccgcct ccccccccc	480
ccctctctac cttctctctt tctttctccg tttttttttt ccgtctcgtc tcgatctttg	540
gccttggtag tttgggggcg agaggcggtc tcgtcgccca gatcgggtag cgttttttta	600
tttgaggggg cgggatctcg cggctgggtc tcggcgtgag gccggattct cgcggggaat	660
ggggctctcg gatgtggatc tgatccgccg ttgttggggg agatatgggg cgtttaaaat	720
ttcgccatgc taaacaagat caggaagagg ggaaaagggc actatgggtt aatttttata	780
tatttctgct gctgctcgtc aggattagat gtgcttgatc tttctttctt ctttttggtg	840
gtagaatttg aatccctcag cattgttcat cggtagtttt tcttttgtag atgctcacc	900
tggtgtttg tgtttttata ctagtggcta tcctgacacg gtctctttgt caaatatctc	960
tgtgtgcagg tataactgca ggaaacaaat tgaacatcat tctatcaata caacacaaac	1020
acaacacaac tcaatcattt atttgacaac acaactaaac aaccatgggtc tagagctc	1078

<210> 33  
 <211> 1692  
 <212> DNA  
 <213> artificial sequence  
 <220>  
 <223> synthetic construct

<400> 33	
ggtaccgagc attgcatgtc taagttataa aaaattacca catatttttt ttgtcacact	60
tgtttgaagt gcagtttatc tatctttata catatattta aactttactc tacgaataat	120
ataatctata gtacaacaat aatatcagtg ttttagagaa tcatataaat gaacagttag	180
acatggtcta aaggacaatt gagtattttg acaacaggac tctacagttt tatcttttta	240
gtgtgcatgt gttctccttt ttttttgcaa atagcttcac ctatataata cttcatccat	300
tttattagta catccattta gggtttaggg ttaatgggtt ttatagacta atttttttag	360
tacatctatt ttattctatt ttagcctcta aattaagaaa actaaaactc tatttttagtt	420
tttttattta ataatttaga tataaaatag aataaaataa agtgactaaa aattaaacaa	480
atacccttta agaaattaaa aaaactaagg aaacattttt cttgtttcga gtagataatg	540
ccagcctgtt aaacgccctc gactgacgct tcgaatgacg cacatgccat ccatagcaag	600
cccagcccaa cccaacccaa cccaacccac cccagtgcag ccaactggca aatagtctcc	660
acaccccggc actatcaccg tgagtgtgcc gcaccaccgc acgtctcgca gccaaaaaaa	720
aaaaaagaaa gaaaaaaaaa aaaaagaaaa aacagcaggt ggggccgggt cgtggggggc	780

# Sequence Listing Project.ST25

ggaaaagcga ggaggatcgc tgacgcttcg aatgacgcac atgcccgcgc agcgacgagg	840
ccggccctcc ctccgcttcc aaagaaacgc ccccatcaa ttctatatat aggaagttca	900
tttcatttgg agccccccaa ccctaccacc accaccacca ccacctctc cttcacacaa	960
cacacacaca acagatctcc cccatcctcc ctcccgtcgc gccgcgcaac acctggtaag	1020
atggctgtgc gctcagatat atatagtgat atgcactaca aagatcataa ctagaccgcc	1080
gcctcccccc cccccctct ctaccttctc tctttctttc tccgtttttt ttttccgtct	1140
cgtctcgatc tttggccttg gtagtttggg ggcgagaggc ggcttcgtcg cccagatcgg	1200
tgcgcgtttt tttatttggg ggggcgggat ctgcgcgctg ggtctcggcg tgcggccgga	1260
ttctcgcggg gaatggggct ctcggatgtg gatctgatcc gccgttggtg ggggagatat	1320
ggggcgttta aaatttcgcc atgctaaaca agatcaggaa gaggggaaaa gggcactatg	1380
gtttaatttt tatatatattc tgctgctgct cgtcaggatt agatgtgctt gatctttctt	1440
tcttcttttt gtgggtagaa tttgaatccc tcagcattgt tcatcggtag tttttctttt	1500
gtcgatgctc acctgttgt ttggtgtttt tatactagtg gctatcctga cacggtctct	1560
ttgtcaaata tctctgtgtg cagggtataac tgcaggaaac aaattgaaca tcattctatc	1620
aatacaacac aaacacaaca caactcaatc atttatttga caacacaact aaacaaccat	1680
ggtctagagc tc	1692

<210> 34  
 <211> 1032  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> synthetic construct

<400> 34	
ctcgagatac atattaagag tatggacaga ctttcttta acaaactcca tttgtattac	60
tccaaaagca ccagaagttt gtcattggctg agtcattgaaa tgtatagttc aatcttgcaa	120
agttgccttt cttttgtac tgtgttttaa cactacaagc catatattgt ctgtacgtgc	180
aacaaactat atcaccatgt atcccaagat gcttttttaa ttctatatat aggaagttca	240
tttcatttgg agccccccaa ccctaccacc accaccacca ccacctctc cttcacacaa	300
cacacacaca acagatctcc cccatcctcc ctcccgtcgc gccgcgcaac acctggtaag	360
atggctgtgc gctcagatat atatagtgat atgcactaca aagatcataa ctagaccgcc	420
gcctcccccc cccccctct ctaccttctc tctttctttc tccgtttttt ttttccgtct	480
cgtctcgatc tttggccttg gtagtttggg ggcgagaggc ggcttcgtcg cccagatcgg	540
tgcgcgtttt tttatttggg ggggcgggat ctgcgcgctg ggtctcggcg tgcggccgga	600
ttctcgcggg gaatggggct ctcggatgtg gatctgatcc gccgttggtg ggggagatat	660

# Sequence Listing Project.ST25

ggggcgttta aaatttcgcc atgctaaaca agatcaggaa gaggggaaaa gggcactatg	720
gtttaatttt tatatatattc tgctgctgct cgtcaggatt agatgtgctt gatctttctt	780
tcttcttttt gtgggtagaa ttggaatccc tcagcattgt tcatcggtag ttttctttt	840
gtcgatgctc accctgttgt ttggtgtttt tatactagtg gctatcctga cacggtctct	900
ttgtcaaata tctctgtgtg caggtataac tgcaggaaac aaattgaaca tcattctatc	960
aatacaacac aaacacaaca caactcaatc atttatttga caacacaact aaacaaccat	1020
ggtctagagc tc	1032